

OIPE

RAW SEQUENCE LISTING

DATE: 07/05/2001

PATENT APPLICATION: US/09/527,376

TIME: 11:13:47

Input Set : A:\407.app.txt

Output Set: N:\CRF3\07032001\I527376.raw

#10

ENTERED

4 <110> APPLICANT: Luche, Ralf M.
 5 Wei, Bo
 7 <120> TITLE OF INVENTION: DSP-2 DUAL-SPECIFICITY PHOSPHATASE
 10 <130> FILE REFERENCE: 200125.407
 12 <140> CURRENT APPLICATION NUMBER: US 09/527,376
 13 <141> CURRENT FILING DATE: 2000-03-16
 15 <160> NUMBER OF SEQ ID NOS: 17
 17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 834
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Homo sapien
 24 <400> SEQUENCE: 1
 25 cttttcctgt atttttttgc ttcattcttg gtgtttcgct gactgctgac cactgaccca 60
 26 ccgccttgat gacagcacc ctcgtgtgct tcccagttca gttccggcag ccctcagtca 120
 27 gcggcctctc gcagataacc aaaagcctgt atatcagcaa tgggtgtggc gccacaaca 180
 28 agctcatgct gtctagcaac cagatcacca tggatcatca tgtctcagtg gaggtagtga 240
 29 acaccttgta tgaggatata cagtacatgc aggtacctgt ggctgactcc cctaactcac 300
 30 gtctctgtga cttctttgac cctattgctg accatatcca cagcgtggag atgaagcagg 360
 31 gccgtacttt gctgcactgt gctgctgggt tgagccgctc agctgccctg tgcctcgctc 420
 32 acctcatgaa gtaccacgcc atgtccctgc tggagcgcga cactgggacc aagtcacgcc 480
 33 ggcccatcat ccgacccaac agcggctttt gggagcagct catccactat gagttccaat 540
 34 tgtttggcaa gaacactgtg cacatgggtca gttccccagt gggaatgata cctgacatct 600
 35 atgagaagga agtccgtttg atgattccac tgtgagccat cccacgagcc cctgcattgg 660
 36 agtcagaggt acagatctat tgttgatctt acaccaagat ccaaacttga acattctact 720
 37 tttgttgata cagaaaaaaa cagatgatgc cttttatgag cacaaaaaag agttgctgta 780
 38 gcttttaact ttataatcca ttttttttca gattaaacta attgtgagat ggtg 834
 40 <210> SEQ ID NO: 2
 41 <211> LENGTH: 188
 42 <212> TYPE: PRT
 43 <213> ORGANISM: Homo sapien
 45 <400> SEQUENCE: 2
 46 Met Thr Ala Pro Ser Cys Ala Phe Pro Val Gln Phe Arg Gln Pro Ser
 47 1 5 10 15
 48 Val Ser Gly Leu Ser Gln Ile Thr Lys Ser Leu Tyr Ile Ser Asn Gly
 49 20 25 30
 50 Val Ala Ala Asn Asn Lys Leu Met Leu Ser Ser Asn Gln Ile Thr Met
 51 35 40 45
 52 Val Ile Asn Val Ser Val Glu Val Val Asn Thr Leu Tyr Glu Asp Ile
 53 50 55 60
 54 Gln Tyr Met Gln Val Pro Val Ala Asp Ser Pro Asn Ser Arg Leu Cys
 55 65 70 75 80
 56 Asp Phe Phe Asp Pro Ile Ala Asp His Ile His Ser Val Glu Met Lys
 57 85 90 95
 58 Gln Gly Arg Thr Leu Leu His Cys Ala Ala Gly Val Ser Arg Ser Ala
 59 100 105 110
 60 Ala Leu Cys Leu Ala Tyr Leu Met Lys Tyr His Ala Met Ser Leu Leu

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61          115          120          125
62 Asp Ala His Thr Trp Thr Lys Ser Cys Arg Pro Ile Ile Arg Pro Asn
63          130          135          140
64 Ser Gly Phe Trp Glu Gln Leu Ile His Tyr Glu Phe Gln Leu Phe Gly
65 145          150          155          160
66 Lys Asn Thr Val His Met Val Ser Ser Pro Val Gly Met Ile Pro Asp
67          165          170          175
68 Ile Tyr Glu Lys Glu Val Arg Leu Met Ile Pro Leu
69          180          185
71 <210> SEQ ID NO: 3
72 <211> LENGTH: 10
73 <212> TYPE: PRT
74 <213> ORGANISM: Homo sapien
76 <400> SEQUENCE: 3
77 Leu His Cys Ala Ala Gly Val Ser Arg Ser
78 1          5          10
80 <210> SEQ ID NO: 4
81 <211> LENGTH: 23
82 <212> TYPE: PRT
83 <213> ORGANISM: Homo sapien
85 <400> SEQUENCE: 4
86 Gly Arg Val Leu Val His Cys Gln Ala Gly Ile Ser Arg Ser Gly Thr
87 1          5          10          15
88 Asn Ile Leu Ala Tyr Leu Met
89          20
91 <210> SEQ ID NO: 5
92 <211> LENGTH: 21
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: PCR primer
99 <400> SEQUENCE: 5
100 ccactgggga actgaccatg t
102 <210> SEQ ID NO: 6
103 <211> LENGTH: 20
104 <212> TYPE: DNA
105 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: PCR primer
110 <400> SEQUENCE: 6
111 gtaggcgagg cacagggcag
113 <210> SEQ ID NO: 7
114 <211> LENGTH: 20
115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: PCR primer
121 <400> SEQUENCE: 7
122 cctgcttcat ctccacgctg

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124 <210> SEQ ID NO: 8
125 <211> LENGTH: 23
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: PCR primer
132 <400> SEQUENCE: 8
133 cctgtggctg actcccctaa ctc                                     23
135 <210> SEQ ID NO: 9
136 <211> LENGTH: 20
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: PCR primer
143 <400> SEQUENCE: 9
144 cagcgtggag atgaagcagg                                         20
146 <210> SEQ ID NO: 10
147 <211> LENGTH: 170
148 <212> TYPE: PRT
149 <213> ORGANISM: Homo sapien
151 <400> SEQUENCE: 10
152 Ser Asp Leu Asp Arg Asp Pro Asn Ser Ala Thr Asp Ser Asp Gly Ser
153   1          5          10          15
154 Pro Leu Ser Asn Ser Gln Pro Ser Phe Pro Val Glu Ile Leu Pro Phe
155          20          25          30
156 Leu Tyr Leu Gly Cys Ala Lys Asp Ser Thr Asn Leu Asp Val Leu Glu
157   35          40          45
158 Glu Phe Gly Ile Lys Tyr Ile Leu Asn Val Thr Pro Asn Leu Pro Asn
159   50          55          60
160 Leu Phe Glu Asn Ala Gly Glu Phe Lys Tyr Lys Gln Ile Pro Ile Ser
161 65          70          75          80
162 Asp His Trp Ser Gln Asn Leu Ser Gln Phe Phe Pro Glu Ala Ile Ser
163          85          90          95
164 Phe Ile Asp Glu Ala Arg Gly Lys Asn Cys Gly Val Leu Val His Cys
165          100         105         110
166 Leu Ala Gly Ile Ser Arg Ser Val Thr Val Thr Val Ala Tyr Leu Met
167          115         120         125
168 Gln Lys Leu Asn Leu Ser Met Asn Asp Ala Tyr Asp Ile Val Lys Met
169          130         135         140
170 Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe Met Gly Gln Leu Leu
171 145          150         155         160
172 Asp Phe Glu Arg Thr Leu Gly Leu Ser Ser
173          165         170
175 <210> SEQ ID NO: 11
176 <211> LENGTH: 168
177 <212> TYPE: PRT
178 <213> ORGANISM: Homo sapien
180 <400> SEQUENCE: 11
181 Asp Arg Glu Leu Pro Ser Ser Ala Thr Glu Ser Asp Gly Ser Pro Val

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182 1 5 10 15
183 Pro Ser Ser Gln Pro Ala Phe Pro Val Gln Ile Leu Pro Tyr Leu Tyr
184 20 25 30
185 Leu Gly Cys Ala Lys Asp Ser Thr Asn Leu Asp Val Leu Gly Lys Tyr
186 35 40 45
187 Gly Ile Lys Tyr Ile Leu Asn Val Thr Pro Asn Leu Pro Asn Ala Phe
188 50 55 60
189 Glu His Gly Gly Glu Phe Thr Tyr Lys Gln Ile Pro Ile Ser Asp His
190 65 70 75 80
191 Trp Ser Gln Asn Leu Ser Gln Phe Phe Pro Glu Ala Ile Ser Phe Ile
192 85 90 95
193 Asp Glu Ala Arg Ser Lys Lys Cys Gly Val Leu Val His Cys Leu Ala
194 100 105 110
195 Gly Ile Ser Arg Ser Val Thr Val Thr Val Ala Tyr Leu Met Gln Lys
196 115 120 125
197 Met Asn Leu Ser Leu Asn Asp Ala Tyr Asp Phe Val Lys Arg Lys Lys
198 130 135 140
199 Ser Asn Ile Ser Pro Asn Phe Asn Phe Met Gly Gln Leu Leu Asp Phe
200 145 150 155 160
201 Glu Arg Thr Leu Gly Leu Ser Ser
202 165
204 <210> SEQ ID NO: 12
205 <211> LENGTH: 168
206 <212> TYPE: PRT
207 <213> ORGANISM: Homo sapien
209 <400> SEQUENCE: 12
210 Pro Ala Gln Ala Leu Pro Pro Ala Gly Ala Glu Asn Ser Asn Ser Asp
211 1 5 10 15
212 Pro Arg Val Pro Ile Tyr Asp Gln Gly Pro Val Glu Ile Leu Pro
213 20 25 30
214 Tyr Leu Tyr Leu Gly Ser Cys Asn His Ser Ser Asp Leu Gln Gly Leu
215 35 40 45
216 Gln Ala Cys Gly Ile Thr Ala Val Leu Asn Val Ser Ala Ser Cys Pro
217 50 55 60
218 Asn His Phe Glu Gly Leu Phe His Tyr Lys Ser Ile Pro Val Glu Asp
219 65 70 75 80
220 Asn Gln Met Val Glu Ile Ser Ala Trp Phe Gln Glu Ala Ile Ser Phe
221 85 90 95
222 Ile Asp Ser Val Lys Asn Ser Gly Gly Arg Val Leu Val His Cys Gln
223 100 105 110
224 Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Ile Gln
225 115 120 125
226 Ser His Arg Val Arg Leu Asp Glu Ala Phe Asp Phe Val Lys Gln Arg
227 130 135 140
228 Arg Gly Val Ile Ser Pro Asn Phe Ser Phe Met Gly Gln Leu Leu Gln
229 145 150 155 160
230 Leu Glu Thr Gln Val Leu Cys His
231 165
233 <210> SEQ ID NO: 13

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234 <211> LENGTH: 169
235 <212> TYPE: PRT
236 <213> ORGANISM: Homo sapien
238 <400> SEQUENCE: 13
239 Pro Leu Ser Thr Ser Val Pro Asp Ser Ala Glu Ser Gly Cys Ser Ser
240 1 5 10 15
241 Cys Ser Thr Pro Leu Tyr Asp Gln Gly Gly Pro Val Glu Ile Leu Pro
242 20 25 30
243 Phe Leu Tyr Leu Gly Ser Ala Tyr His Ala Ser Arg Lys Asp Met Leu
244 35 40 45
245 Asp Ala Leu Gly Ile Thr Ala Leu Ile Asn Val Ser Ala Asn Cys Pro
246 50 55 60
247 Asn His Phe Glu Gly His Tyr Gln Tyr Lys Ser Ile Pro Val Glu Asp
248 65 70 75 80
249 Asn His Lys Ala Asp Ile Ser Ser Trp Phe Asn Glu Ala Ile Asp Phe
250 85 90 95
251 Ile Asp Ser Ile Lys Asn Ala Gly Gly Arg Val Phe Val His Cys Gln
252 100 105 110
253 Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met Arg
254 115 120 125
255 Thr Asn Arg Val Lys Leu Asp Glu Ala Phe Glu Phe Val Lys Gln Arg
256 130 135 140
257 Arg Ser Ile Ile Ser Pro Asn Phe Ser Phe Met Gly Gln Leu Leu Gln
258 145 150 155 160
259 Phe Glu Ser Gln Val Leu Ala Pro His
260 165
262 <210> SEQ ID NO: 14
263 <211> LENGTH: 169
264 <212> TYPE: PRT
265 <213> ORGANISM: Homo sapien
267 <400> SEQUENCE: 14
268 Pro Val Pro Pro Ser Ala Thr Glu Pro Leu Asp Leu Gly Cys Ser Ser
269 1 5 10 15
270 Cys Gly Thr Pro Leu His Asp Gln Gly Gly Pro Val Glu Ile Leu Pro
271 20 25 30
272 Phe Leu Tyr Leu Gly Ser Ala Tyr His Ala Ala Arg Arg Asp Met Leu
273 35 40 45
274 Asp Ala Leu Gly Ile Thr Ala Leu Leu Asn Val Ser Ser Asp Cys Pro
275 50 55 60
276 Asn His Phe Glu Gly His Tyr Gln Tyr Lys Cys Ile Pro Val Glu Asp
277 65 70 75 80
278 Asn His Lys Ala Asp Ile Ser Ser Trp Phe Met Glu Ala Ile Glu Tyr
279 85 90 95
280 Ile Asp Ala Val Lys Asp Cys Arg Gly Arg Val Leu Val His Cys Gln
281 100 105 110
282 Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met Met
283 115 120 125
284 Lys Lys Arg Val Arg Leu Glu Ala Phe Glu Phe Val Lys Gln Arg
285 130 135 140

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VERIFICATION SUMMARY

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Input Set : A:\407.app.txt

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